

Safety Evaluation Number¹: SE-W375-00-00019 Revision No: 0

ABCN Number: ABCN-W375-00-00027

Safety Evaluation Subject: Codes & Standards Update - Design / Authorization Basis Alignment

PART I: DESCRIPTION OF THE PROPOSED REVISION, BACKGROUND, AND SCHEDULE

1. Describe the proposed revision (including credible failure modes, if applicable).

Revise the citation of ACI 318-95 and ACI 318R-95 to ACI 318-99 and ACI 318R-99 in safety criteria 4.1-2 and 4.1-4 and section 2.0 of Appendix C of the SRD.
2. Identify the affected Authorization Basis (AB) documents and perform a comparison and assessment of the revision against the AB.

SRD Safety Criteria 4.1-2 and 4.1-4 and section 2.0 of SRD Appendix C are the affected portions of the AB.
3. List the references used for the safety evaluation.

BNFL-5193-SRD-01, Rev 2e, TWRS-P Safety Requirements Document
00-RU-0020, dated October 27, 1999, Safety Evaluation by the DOE Regulatory Unit of Proposed Authorization Basis Amendment Request, ABAR-W375-99-00008, Rev 0 to the Safety Requirements Document for the Tank Waste Remediation System – Privatization Project (Contract DE-AC06-96RL13308)
4. Describe the planned revision implementation schedule.

The change will be implemented within 30 days of RU approval.

PART II: REGULATORY IMPACT OF PROPOSED AB REVISION

The following questions are to be answered as part of the safety evaluation, to determine if the proposed AB revision (and the proposed initiating change if applicable) requires prior RU approval.

- | | <u>YES</u> | <u>NO</u> |
|---|-------------------------------------|-------------------------------------|
| 1. Does the revision involve the deletion or modification of a standard previously identified or established in the approved SRD? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| JUSTIFICATION: | | |
| The change is to revise the citation of ACI 318 and ACI 318R from the 1995 version to the 1999 version as implementing standards for Safety Criteria 4.1-2 and 4.1-4. | | |
| 2. Does the revision result in a reduction in commitment currently described in the AB? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| JUSTIFICATION: | | |
| ACI 318-99 contains more extensive seismic detailing requirements for concrete structures subject to seismic loading. ACI 318-99 also reflects the most current methodology endorsed by the American Concrete Institute, in addition to updates to the previous version of the code. | | |

¹ The Safety Evaluation Number shall be obtained from Project Document Control.

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YES NO

The Regulatory Unit has previously approved the change to ACI-318-99 and ACI 318R-99 in “Safety Evaluation by the DOE Regulatory Unit of Proposed Authorization Basis Amendment Request, ABAR-W375-99-00008, Rev 0 to the Safety Requirements Document for the Tank Waste Remediation System – Privatization Project (Contract DE-AC06-96RL13308)”, which was attached to 00-RU-0020, dated October 27, 1999.

3. Does the revision result in a reduction in the effectiveness of any program, procedure, or plan described in the AB. ☐ ☒

JUSTIFICATION:

The use of ACI 318 is not described in any program, plan, or procedure described in the authorization basis.

Note: Guidance on defining the terms and responding to the above questions is provided in K70C528, Code of Practice for Managing Changes to the Authorization Basis, Appendix 6.

If all the answers to the above questions are no, then the change can be made without prior RU approval.

If any of the above answers is yes, then RU approval is required prior to implementation of the AB revision (and the initiating change if applicable). An ABAR shall be prepared to obtain RU approval (see K70C528, Appendix 7.)

PART III: SAFETY EVALUATION CONCLUSION

- ☐ All PART II questions are answered No. Therefore, RU approval is NOT required prior to implementing the proposed AB revision (and initiating change where applicable).
- ☒ At least one PART II question is answered Yes. Therefore, RU approval IS required prior to implementing the proposed AB revision (and initiating change where applicable). Issuance of an ABAR is required to obtain RU approval.

Evaluator/Originator

Date

Reviewer²

Date

Radiological, Nuclear, and Process Safety Manager

Date

² The reviewer should be a person from the same department as the Evaluator/Originator and at least as qualified as the Evaluator/Originator to conduct safety evaluations.

Safety Evaluation

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Chair, Project Safety Committee³

Date

RPP-WTP General Manager³

Date

³ This signature required if Safety Evaluation concludes AB change can be made without RU prior approval. If RU approval (ABAR) is required, PSC and GM signatures occur on the ABAR.